

# Edoardo Daly

## List of Publications by Year in descending order

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84  
papers

3,342  
citations

186265

28  
h-index

155660

55  
g-index

95  
all docs

95  
docs citations

95  
times ranked

4231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil Water Balance and Ecosystem Response to Climate Change. <i>American Naturalist</i> , 2004, 164, 625-632.	2.1	554
2	Source-control stormwater management for mitigating the impacts of urbanisation on baseflow: A review. <i>Journal of Hydrology</i> , 2013, 485, 201-211.	5.4	182
3	Assessing practical measures to reduce urban heat: Green and cool roofs. <i>Building and Environment</i> , 2013, 70, 266-276.	6.9	178
4	Monitoring and modeling water-vegetation interactions in groundwater-dependent ecosystems. <i>Reviews of Geophysics</i> , 2012, 50, .	23.0	168
5	Intensification of future severe heat waves in India and their effect on heat stress and mortality. <i>Regional Environmental Change</i> , 2015, 15, 569-579.	2.9	122
6	A Review of Soil Moisture Dynamics: From Rainfall Infiltration to Ecosystem Response. <i>Environmental Engineering Science</i> , 2005, 22, 9-24.	1.6	121
7	Coupled Dynamics of Photosynthesis, Transpiration, and Soil Water Balance. Part I: Upscaling from Hourly to Daily Level. <i>Journal of Hydrometeorology</i> , 2004, 5, 546-558.	1.9	119
8	An urban ecohydrological model to quantify the effect of vegetation on urban climate and hydrology (UT&C v1.0). <i>Geoscientific Model Development</i> , 2020, 13, 335-362.	3.6	79
9	On the spectrum of soil moisture from hourly to interannual scales. <i>Water Resources Research</i> , 2007, 43, .	4.2	77
10	Probabilistic characterization of base flows in river basins: Roles of soil, vegetation, and geomorphology. <i>Water Resources Research</i> , 2007, 43, .	4.2	69
11	Transient soil-moisture dynamics and climate change in Mediterranean ecosystems. <i>Water Resources Research</i> , 2008, 44, .	4.2	65
12	Changes in photosynthesis and soil moisture drive the seasonal soil respiration-temperature hysteresis relationship. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 184-195.	4.8	65
13	Irreversibility and Fluctuation Theorem in Stationary Time Series. <i>Physical Review Letters</i> , 2007, 98, 094101.	7.8	56
14	A stochastic model for daily subsurface CO <sub>2</sub> concentration and related soil respiration. <i>Advances in Water Resources</i> , 2008, 31, 987-994.	3.8	56
15	The hysteresis response of soil CO <sub>2</sub> concentration and soil respiration to soil temperature. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1605-1618.	3.0	55
16	Impact of hydroclimatic fluctuations on the soil water balance. <i>Water Resources Research</i> , 2006, 42, .	4.2	54
17	Explicit incompressible SPH algorithm for free-surface flow modelling: A comparison with weakly compressible schemes. <i>Advances in Water Resources</i> , 2016, 97, 156-167.	3.8	54
18	Coupled Dynamics of Photosynthesis, Transpiration, and Soil Water Balance. Part II: Stochastic Analysis and Ecohydrological Significance. <i>Journal of Hydrometeorology</i> , 2004, 5, 559-566.	1.9	53

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19	Stochastic modeling of soil salinity. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	49
20	Exact Solutions of the Richards Equation With Nonlinear Plantâ€™Root Extraction. <i>Water Resources Research</i> , 2017, 53, 9679-9691.	4.2	48
21	A review of ion and metal pollutants in urban green water infrastructures. <i>Science of the Total Environment</i> , 2014, 470-471, 695-706.	8.0	40
22	Simplified modeling of catchment-scale evapotranspiration via boundary condition switching. <i>Advances in Water Resources</i> , 2014, 69, 95-105.	3.8	35
23	A stochastic model of streamflow for urbanized basins. <i>Water Resources Research</i> , 2014, 50, 1984-2001.	4.2	33
24	The influence of the El NiÃ±o Southern Oscillation on heat waves in India. <i>Meteorological Applications</i> , 2016, 23, 705-713.	2.1	33
25	A comparison of optical and microwave scintillometers with eddy covariance derived surface heat fluxes. <i>Agricultural and Forest Meteorology</i> , 2015, 213, 226-239.	4.8	32
26	Occasional large emissions of nitrous oxide and methane observed in stormwater biofiltration systems. <i>Science of the Total Environment</i> , 2013, 465, 64-71.	8.0	30
27	Probabilistic dynamics of soil nitrate: Coupling of ecohydrological and biogeochemical processes. <i>Water Resources Research</i> , 2008, 44, .	4.2	29
28	<i>Escherichia coli</i> concentrations and loads in an urbanised catchment: The Yarra River, Australia. <i>Journal of Hydrology</i> , 2013, 497, 51-61.	5.4	29
29	Probabilistic dynamics of some jump-diffusion systems. <i>Physical Review E</i> , 2006, 73, 026108.	2.1	28
30	Intertime jump statistics of state-dependent Poisson processes. <i>Physical Review E</i> , 2007, 75, 011119.	2.1	28
31	Modelling of stormwater biofilters under random hydrologic variability: a case study of a car park at Monash University, Victoria (Australia). <i>Hydrological Processes</i> , 2012, 26, 3416-3424.	2.6	28
32	Root water compensation sustains transpiration rates in an Australian woodland. <i>Advances in Water Resources</i> , 2014, 74, 91-101.	3.8	28
33	The effects of elevated atmospheric CO2 and nitrogen amendments on subsurface CO2 production and concentration dynamics in a maturing pine forest. <i>Biogeochemistry</i> , 2009, 94, 271-287.	3.5	27
34	A note on groundwater flow along a hillslope. <i>Water Resources Research</i> , 2004, 40, .	4.2	26
35	Effect of different jump distributions on the dynamics of jump processes. <i>Physical Review E</i> , 2010, 81, 061133.	2.1	26
36	A stochastic model describing the impact of daily rainfall depth distribution on the soil water balance. <i>Advances in Water Resources</i> , 2011, 34, 1039-1048.	3.8	26

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37	Catchment-scale Richards equation-based modeling of evapotranspiration via boundary condition switching and root water uptake schemes. <i>Water Resources Research</i> , 2015, 51, 5756-5771.	4.2	26
38	Groundwater Buffers Drought Effects and Climate Variability in Urban Reserves. <i>Water Resources Research</i> , 2020, 56, e2019WR026192.	4.2	26
39	The impact of stormwater biofilter design and operational variables on nutrient removal - a statistical modelling approach. <i>Water Research</i> , 2021, 188, 116486.	11.3	26
40	Effect of Eucalyptus plantations, geology, and precipitation variability on water resources in upland intermittent catchments. <i>Journal of Hydrology</i> , 2018, 564, 723-739.	5.4	24
41	State-dependent fire models and related renewal processes. <i>Physical Review E</i> , 2006, 74, 041112.	2.1	23
42	Stormwater pollutant runoff: A stochastic approach. <i>Advances in Water Resources</i> , 2014, 74, 148-155.	3.8	23
43	Using multiple methods to investigate the effects of land-use changes on groundwater recharge in a semi-arid area. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 89-104.	4.9	23
44	A possible mechanism for soil moisture bimodality in humid-land environments. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	22
45	Similarity solutions of nonlinear diffusion problems related to mathematical hydraulics and the Fokker-Planck equation. <i>Physical Review E</i> , 2004, 70, 056303.	2.1	21
46	Water balance complexities in ephemeral catchments with different land uses: Insights from monitoring and distributed hydrologic modeling. <i>Water Resources Research</i> , 2016, 52, 4713-4729.	4.2	21
47	Relationship between root water uptake and soil respiration: A modeling perspective. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2017, 122, 1954-1968.	3.0	21
48	Which baseflow metrics should be used in assessing flow regimes of urban streams?. <i>Hydrological Processes</i> , 2015, 29, 4367-4378.	2.6	19
49	Water balance and tree water use dynamics in remnant urban reserves. <i>Journal of Hydrology</i> , 2019, 575, 343-353.	5.4	17
50	Hydrological Spaces of Long-Term Catchment Water Balance. <i>Water Resources Research</i> , 2019, 55, 10747-10764.	4.2	17
51	Water and salt balance modelling of intermittent catchments using a physically-based integrated model. <i>Journal of Hydrology</i> , 2019, 568, 1017-1030.	5.4	17
52	SPH modelling of multi-fluid lock-exchange over and within porous media. <i>Advances in Water Resources</i> , 2017, 108, 15-28.	3.8	16
53	Linking parametric and water-balance models of the Budyko and Turc spaces. <i>Advances in Water Resources</i> , 2019, 134, 103435.	3.8	16
54	Simulated response of an intermittent stream to rainfall frequency patterns. <i>Hydrological Processes</i> , 2020, 34, 615-632.	2.6	16

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55	Riparian vegetation and geomorphological interactions in anabranching rivers: A global review. <i>Ecohydrology</i> , 2022, 15, e2370.	2.4	16
56	Stochastic rainfall-runoff model with explicit soil moisture dynamics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150389.	2.1	15
57	Carbon, water and energy fluxes in agricultural systems of Australia and New Zealand. <i>Agricultural and Forest Meteorology</i> , 2020, 287, 107934.	4.8	15
58	The Energy Side of Budyko: Surface Energy Partitioning From Hydrological Observations. <i>Geophysical Research Letters</i> , 2019, 46, 7456-7463.	4.0	14
59	Decomposition Pathways and Rates of Human Urine in Soils. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 6175-6186.	5.2	13
60	Modelling the effects of soil type and root distribution on shallow groundwater resources. <i>Hydrological Processes</i> , 2015, 29, 4457-4469.	2.6	13
61	Smoothed Particle Hydrodynamics modelling of fresh and salt water dynamics in porous media. <i>Journal of Hydrology</i> , 2019, 576, 370-380.	5.4	13
62	Assessing vegetation response to irrigation strategies and soil properties in an urban reserve in southeast Australia. <i>Landscape and Urban Planning</i> , 2021, 215, 104198.	7.5	13
63	Technical note: Long-term persistence loss of urban streams as a metric for catchment classification. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3551-3559.	4.9	12
64	Water Smart Cities Increase Irrigation to Provide Cool Refuge in a Climate Crisis. <i>Earth's Future</i> , 2021, 9, e2020EF001806.	6.3	12
65	Dynamic river-groundwater exchange in the presence of a saline, semi-confined aquifer. <i>Hydrological Processes</i> , 2015, 29, 4817-4829.	2.6	11
66	Modeling Transitions between Free Surface and Pressurized Flow with Smoothed Particle Hydrodynamics. <i>Journal of Hydraulic Engineering</i> , 2018, 144, .	1.5	11
67	Some self-similar solutions in river morphodynamics. <i>Water Resources Research</i> , 2005, 41, .	4.2	10
68	Stochastic dynamics of snow avalanche occurrence by superposition of Poisson processes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 4193-4208.	2.1	10
69	Automated Chamber System to Measure Field Evapotranspiration Rates. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	1.9	10
70	Feasibility of Improving Groundwater Modeling by Assimilating Evapotranspiration Rates. <i>Water Resources Research</i> , 2020, 56, e2019WR025983.	4.2	10
71	A dynamic connectivity metric for complex river wetlands. <i>Journal of Hydrology</i> , 2021, 603, 127163.	5.4	9
72	Modeling hydrological impacts of afforestation on intermittent streams. <i>Science of the Total Environment</i> , 2020, 728, 138748.	8.0	8

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73	Geochemical modelling of heavy metals in urban stormwater biofilters. <i>Ecological Engineering</i> , 2017, 102, 565-576.	3.6	7
74	Sources and mean transit times of intermittent streamflow in semi-arid headwater catchments. <i>Journal of Hydrology</i> , 2022, 604, 127208.	5.4	7
75	Long-Term Impacts of Partial Afforestation on Water and Salt Dynamics of an Intermittent Catchment under Climate Change. <i>Water (Switzerland)</i> , 2020, 12, 1067.	2.7	6
76	Unsaturated zone model complexity for the assimilation of evapotranspiration rates in groundwater modelling. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2261-2277.	4.9	6
77	Local kinetic interpretation of entropy production through reversed diffusion. <i>Physical Review E</i> , 2011, 84, 041142.	2.1	5
78	Tree hydrodynamic modelling of the soil-plant-atmosphere continuum using FETCH3. <i>Geoscientific Model Development</i> , 2022, 15, 2619-2634.	3.6	5
79	Advantages of analytically computing the ground heat flux in land surface models. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4689-4706.	4.9	4
80	Ecohydrology of Urban Ecosystems. , 2019, , 533-571.		3
81	Exact solutions of the Navier-Stokes equations generalized for flow in porous media. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	2
82	Correlation-anti-correlation transition by state-dependent Poisson noise. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 170-174.	2.8	1
83	Trading a little water for substantial carbon gains during the first years of a <i>Eucalyptus globulus</i> plantation. <i>Agricultural and Forest Meteorology</i> , 2022, 318, 108910.	4.8	1
84	Ecohydrology. , 2006, , 29-1-29-42.		0